

SR-700L



Address inquiries to :

<http://www.kato-works.co.jp>

NOTE : Illustrations may include optional equipment. KATO products and specifications are subject to improvements and changes without notice.

ISO 9001
BUREAU VERITAS
Certification



KATO

**QUALITY & EXPERIENCE
SINCE 1895**

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KATO

SR-700L

Rough Terrain Crane

Maximum rated lifting capacity: 70t×2.5m

Maximum boom length: 44.5m

Engine output: 257kW / 2,200min⁻¹ (ISO Net)



Powerful & Reliable 6 section SUPERBOOM and 2 section SL jib

44.5m **SUPERBOOM** and 13.2m SL JIB with LARGE Angle offers you wider working ranges and quick erection in narrow spaces.

- Maximum Lifting Capacity — 70ton×2.5m
- Boom Length — 10.0m~44.5m
- Boom Derricking Angle — 0°~84°
- Jib Length — 8.3m~13.2m
- Jib Off-set Angle — 7°~60°
- Maximum Lifting Height — 45.5m (Boom)
58.6m (Jib)



Outrigger Width



SR-700L

ROUGH TERRAIN CRANE

[SPECIFICATION]

■ CRANE Specification

Maximum lifting capacity	70ton × 2.5m	
Boom length	10.0m — 44.5m (6 section)	
Fly jib length	8.3m — 13.2m (2 section, offset 7° — 60°)	
Maximum rated lifting height	45.5m (Boom) 58.6m (jib)	
Hoisting line speed (winch up)	Main winch	160m / min. (at 5th layer)
	Auxiliary winch	150m / min. (at 4th layer)
Hoisting hook speed (winch up)	Main winch	(Parts of line; 16) : 10m / min. (at 5th layer)
	Auxiliary winch	(Parts of line; 1) : 150m / min. (at 4th layer)
Boom derricking angle	0° — 84°	
Boom derricking time	66sec / (0° — 84°)	
Boom extending speed	135sec / (10.0m — 44.5m)	
Slewing speed	1.8min ⁻¹	
Tail slewing radius	3,550mm	

● Equipment and structure

Boom type	Box-shaped, 6-section hydraulically telescopic type (Boom section 2 / 3, 4 / 5 / 6 simultaneously operated)	
Jib type	2 sections (2nd section of hydraulically telescopic type) (offset angles 7° — 60°)	
Boom extension/retraction equipment	Three hydraulic cylinders and wire ropes used together	
Boom derricking/lowering equipment	Two hydraulic cylinders of direct acting type with pressure-compensated flow control valve	
Winch system Main & Auxiliary winches	Driven by axial plunger type hoisting motor through planetary gear reduction. Controlled independently by respective operating lever. Equipped with automatic brake.	
Slewing equipment	Ball bearing type	
Outriggers	Type	Hydraulic H-beam type (with float and vertical cylinder in single unit)
	Extension width	7,600mm (Fully extended)
		7,200mm (Intermediately extended)
		6,500mm (Intermediately extended)
		5,400mm (Intermediately extended)
		4,300mm (Intermediately extended)
2,690mm (Fully retracted)		
Wire rope for hoisting	Main winch	Diameter: 18mm × Length: 240m
	Auxiliary winch	Diameter: 18mm × Length: 125m

● Hydraulic equipment

Oil pump	4 pumps, plunger type	
Hydraulic motor	Hoisting motor	Axial plunger type
	Slewing motor	Axial plunger type
Control valve	Double acting with integral check and relief valves	
Cylinder	Double acting type	
Oil reservoir capacity	740L	

● Safety devices

ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Boom raise / lower dampening function, Boom extension / retraction dampening function, Outrigger status detector, Boom derricking / telescoping holding valve, Overhoist prevention device, Drum lock device (on aux. winch), Winch holding valve, Automatic winch brake, Winch drum roller, Hydraulic safety valves, Outrigger lock pins, Slewing lock, Joystick control safety stop system, Hydraulic oil temperature warning device, Hydraulic oil return filter warning device

● Standard equipment

Hydraulic oil cooler, Working light (on boom, table and cab), Winch drum turning indication device, Hook for 34 ton, Hook for 5ton

● Operator's cab

All steel welded construction, 1 person, Rubber mounted, Adjustable steering wheel, Adjustable seat, Seat belt, Front windscreen wiper & washer (2 speed wiper), Roof window wiper & washer, Cigarette lighter, Ashtray, Floor mat

● Optional equipment

Winch view camera, Hook for 70 / 48 ton, Slewing warning buzzer, Winch over unwinding device, Cab heater, Cab cooler, Fan, AM/FM Radio, Fire extinguisher, ACS outside indicator

■ CARRIER Specification

Maximum traveling speed	49km/h
Gradeability (tan θ)	60% (computed at G.V.W. = 39,750kg)
Minimum turning radius (center of extreme outer tire)	11.2m (2 wheel steer)
	6.44m (4 wheel steer)
● Engine	
Model	Mitsubishi 6D24-TLE2A
Type	4 cycle, 6 cylinders, water cooled, direct injection turbo-charged diesel engine with intercooling
Piston displacement	11,945L
Max. power	257kW at 2,200min ⁻¹
Max. torque	1,275N·m at 1,500min ⁻¹
Fuel due to KATO's recommendation only	

● Equipment and structure

Drive system	4 × 4	
Torque converter	Engine mounted 3 elements 1 stage (with lock up clutch)	
Transmission	Remote mounted full automatic 6 forward & 2 reverse speed with transfer differential	
Number of speeds	6 forward & 2 reverse speed	
Axles	Front	Planetary, drive/steer type
	Rear	Planetary, drive/steer type
Suspension	Front & Rear	Hydro-pneumatic suspension Hydraulic locking device with suspension cylinder
	Service brake	Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)
Brake system	Parking brake	Spring applied, electrically air released parking brake mounted on front axle, internal expanding type
	Auxiliary brake	Exhaust brake, Hydraulic retarder
Steering	Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system)	
Tire size	Front	505 / 95 R25 183E ROAD
	Rear	505 / 95 R25 183E ROAD
Fuel tank capacity	300 L	
Batteries	(12V—150AH) × 2	

● Safety devices

Emergency steering device, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Service brake lock, Suspension lock, Engine overspeed alarm, Radiator coolant level warning device, Air filter service warning device

● Standard equipment

Centralized lubricating system, Bypass oil filter

● Optional equipments

Yellow rev. light, Rear view camera, Side view camera

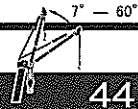
■ GENERAL Dimensions

Overall length	12,590mm	
Overall width	2,990mm	
Overall height	3,680mm	
Wheel base	5,300mm	
Treads	Front	2,410mm
	Rear	2,410mm
Passenger capacity	One person	
Gross vehicle mass	Gross weight	approx. 39,750kg
	Front weight	approx. 19,850kg
	Rear weight	approx. 19,900kg

● Slow the hooks in place before traveling.

● Before you use this machine, read the precautions in the instruction manual thoroughly to operate it correctly.

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44.5m Boom + 8.3m SLJib

Outriggers fully extended (7.6m) (over side and over rear)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	5.8	4.00	8.6	3.00	10.4	1.90	11.2	1.00
80	10.3	4.00	12.8	3.00	14.4	1.90	14.7	1.00
77	13.4	4.00	15.8	3.00	17.0	1.85	17.3	1.00
75	15.5	4.00	17.5	3.00	18.7	1.80	19.0	1.00
73	17.3	3.70	19.3	2.75	20.3	1.75	20.7	1.00
70	19.9	3.20	21.8	2.45	22.8	1.65	23.1	1.00
68	21.7	2.90	23.5	2.25	24.5	1.60	24.6	1.00
65	24.1	2.30	25.8	2.05	26.8	1.55	26.8	1.00
63	25.7	1.80	27.3	1.70	28.3	1.50	28.2	1.00
60	27.7	1.35	29.4	1.20	30.3	1.15		
57	29.8	0.90	31.4	0.80	32.3	0.75		
54	31.8	0.55	33.4	0.45	34.0	0.45		
Critical boom angle	53°		53°		53°		62°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (7.2m) (over side)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	5.8	4.00	8.6	3.00	10.4	1.90	11.2	1.00
80	10.3	4.00	12.8	3.00	14.4	1.90	14.7	1.00
77	13.4	4.00	15.8	3.00	17.0	1.85	17.3	1.00
75	15.5	4.00	17.5	3.00	18.7	1.80	19.0	1.00
73	17.3	3.70	19.3	2.75	20.3	1.75	20.7	1.00
70	19.9	3.20	21.8	2.45	22.8	1.65	23.1	1.00
68	21.7	2.80	23.5	2.25	24.5	1.60	24.6	1.00
65	23.8	2.10	25.7	1.85	26.8	1.55	26.8	1.00
63	25.3	1.65	27.1	1.45	28.2	1.40	28.2	1.00
60	27.5	1.10	29.3	1.00	30.2	0.95		
57	29.6	0.70	31.3	0.60	32.2	0.55		
Critical boom angle	56°		56°		56°		62°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (6.5m) (over side)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	5.8	4.00	8.6	3.00	10.4	1.90	11.2	1.00
80	10.3	4.00	12.8	3.00	14.4	1.90	14.7	1.00
77	13.4	4.00	15.8	3.00	17.0	1.85	17.3	1.00
75	15.5	4.00	17.5	3.00	18.7	1.80	19.0	1.00
73	17.3	3.70	19.3	2.75	20.3	1.75	20.7	1.00
70	19.7	2.90	21.8	2.45	22.8	1.65	23.1	1.00
68	21.2	2.35	23.3	2.00	24.5	1.60	24.6	1.00
65	23.5	1.60	25.5	1.40	26.7	1.30	26.8	1.00
63	25.0	1.20	27.0	1.00	28.1	0.95	28.2	1.00
60	27.2	0.65	29.1	0.60	30.1	0.55		
Critical boom angle	59°		59°		59°		62°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (5.4m) (over side)

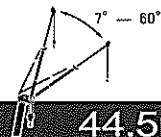
Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	5.8	4.00	8.6	3.00	10.4	1.90	11.2	1.00
80	10.3	4.00	12.8	3.00	14.4	1.90	14.7	1.00
77	13.4	4.00	15.8	3.00	17.0	1.85	17.3	1.00
75	15.1	3.60	17.5	3.00	18.7	1.80	19.0	1.00
73	16.7	3.00	19.0	2.55	20.3	1.75	20.7	1.00
70	19.1	2.10	21.4	1.85	22.7	1.55	23.1	1.00
68	20.7	1.50	23.0	1.20	24.3	1.10	24.6	1.00
Critical boom angle	67°		67°		67°		67°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (4.3m) (over side)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	5.8	4.00	8.6	3.00	10.4	1.90	11.2	1.00
80	10.3	4.00	12.8	3.00	14.4	1.90	14.7	1.00
77	13.0	3.40	15.8	2.55	17.0	1.85	17.3	1.00
75	14.8	2.45	17.2	2.00	18.7	1.70	19.0	1.00
73	16.5	1.75	18.8	1.40	20.3	1.30	20.7	1.00
Critical boom angle	72°		72°		72°		72°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers extended (over front)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	5.8	4.00	8.6	3.00	10.4	1.90	11.2	1.00
80	10.3	4.00	12.8	3.00	14.4	1.90	14.7	1.00
77	13.4	4.00	15.8	3.00	17.0	1.85	17.3	1.00
75	15.5	4.00	17.5	3.00	18.7	1.80	19.0	1.00
73	17.3	3.70	19.3	2.75	20.3	1.75	20.7	1.00
70	19.9	3.20	21.8	2.45	22.8	1.65	23.1	1.00
68	21.7	2.90	23.5	2.25	24.5	1.60	24.6	1.00
65	24.1	2.45	25.8	2.05	26.8	1.55	26.8	1.00
63	25.7	2.25	27.4	1.90	28.3	1.50	28.2	1.00
60	27.9	1.75	29.6	1.60	30.3	1.45		
57	30.0	1.30	31.7	1.15	32.3	1.15		
54	32.0	0.90	33.6	0.80	34.0	0.80		
49	35.2	0.40	36.5	0.35	37.0	0.35		
Critical boom angle	48°		48°		48°		62°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							



44.5m Boom + 13.2m SLJib

Outriggers fully extended (7.6m) (over side and over rear)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	7.2	2.50	11.0	1.50	14.3	1.00	15.7	0.60
80	11.8	2.50	15.5	1.50	18.2	1.00	19.5	0.60
77	15.3	2.50	18.6	1.50	21.0	1.00	22.2	0.60
75	17.5	2.50	20.6	1.50	22.9	1.00	23.8	0.60
73	19.6	2.50	22.5	1.45	24.8	1.00	25.4	0.60
70	22.5	2.20	25.2	1.40	27.3	1.00	27.8	0.60
68	24.5	2.05	27.0	1.35	29.0	1.00	29.4	0.60
65	27.2	1.85	29.6	1.30	31.4	1.00	31.5	0.60
63	28.9	1.50	31.2	1.25	32.9	0.95	32.9	0.60
60	31.2	1.05	33.6	0.95	35.3	0.90		
58	32.5	0.85	35.2	0.70	36.5	0.70		
55	34.5	0.55	37.2	0.40	38.3	0.40		
Critical boom angle	54°		54°		54°		62°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (7.2m) (over side)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	7.2	2.50	11.0	1.50	14.3	1.00	15.7	0.60
80	11.8	2.50	15.5	1.50	18.2	1.00	19.5	0.60
77	15.3	2.50	18.6	1.50	21.0	1.00	22.2	0.60
75	17.5	2.50	20.6	1.50	22.9	1.00	23.8	0.60
73	19.6	2.50	22.5	1.45	24.8	1.00	25.4	0.60
70	22.5	2.20	25.2	1.40	27.3	1.00	27.8	0.60
68	24.5	2.05	27.0	1.35	29.0	1.00	29.4	0.60
65	27.1	1.65	29.6	1.30	31.4	1.00	31.5	0.60
63	28.7	1.30	31.1	1.20	32.9	0.95	32.9	0.60
60	31.0	0.85	33.4	0.80	34.9	0.75		
58	32.3	0.65	34.9	0.55	36.2	0.45		
Critical boom angle	57°		57°		57°		62°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (6.5m) (over side)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	7.2	2.50	11.0	1.50	14.3	1.00	15.7	0.60
80	11.8	2.50	15.5	1.50	18.2	1.00	19.5	0.60
77	15.3	2.50	18.6	1.50	21.0	1.00	22.2	0.60
75	17.5	2.50	20.6	1.50	22.9	1.00	23.8	0.60
73	19.6	2.50	22.5	1.45	24.8	1.00	25.4	0.60
70	22.5	2.20	25.2	1.40	27.3	1.00	27.8	0.60
68	24.5	2.05	27.0	1.35	29.0	1.00	29.4	0.60
65	27.2	1.85	29.6	1.30	31.4	1.00	31.5	0.60
63	28.3	1.25	29.4	1.10	31.4	1.00	31.5	0.60
60	31.2	0.90	31.0	0.80	32.7	0.70	32.9	0.60
Critical boom angle	62°		62°		62°		62°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (5.4m) (over side)



Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	7.2	2.50	11.0	1.50	14.3	1.00	15.7	0.60
80	11.8	2.50	15.5	1.50	18.2	1.00	19.5	0.60
77	15.3	2.50	18.6	1.50	21.0	1.00	22.2	0.60
75	17.5	2.50	20.6	1.50	22.9	1.00	23.8	0.60
73	19.5	2.35	22.5	1.45	24.8	1.00	25.4	0.60
70	22.0	1.60	25.0	1.30	27.3	1.00	27.8	0.60
68	23.5	1.20	26.8	0.90	28.9	0.85	29.4	0.60
Critical boom angle	67°		67°		67°		67°	
Standard hook	for 5 ton (Hook mass : 120kg)							
Parts of line	1							

Outriggers intermediately extended (4.3m) (over side)

Boom angle (°)	Offset 7°		Offset 25°		Offset 45°		Offset 60°	
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
84	7.2	2.50	11.0	1.50	14.3	1.00	15.7	0.60
80	11.8	2.50	15.5	1.50	18.2	1.00	19.5	0.60
77	15.3	2.50	18.6	1.50	21.0	1.00	22.2	0.60
75	17.0	2.00	20.6	1.50	22.9	1.00	23.8	0.60
73	18.8	1.40	22.3	1.1				

■ When the outriggers are not used

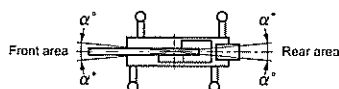
(Unit : Metric ton)

													Working radius (m)
Working radius (m)	Stationary on rubber						Pick & carry (less than 2 km/h)						
	10.0m Boom		16.9m Boom		23.8m Boom		10.0m Boom		16.9m Boom		23.8m Boom		
	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	
3.5	20.00	12.00	15.00	8.50	9.00	4.50	14.50	8.00	10.50	6.50	7.50	3.30	3.5
4.0	20.00	9.80	15.00	8.50	9.00	4.50	14.50	7.00	10.50	6.50	7.50	3.30	4.0
4.5	17.40	8.00	15.00	7.20	9.00	4.50	12.50	6.00	10.50	5.40	7.50	3.30	4.5
5.0	15.50	6.60	15.00	6.10	9.00	4.50	11.00	5.10	10.50	4.50	7.50	3.30	5.0
5.5	14.00	5.50	13.70	5.10	9.00	4.50	10.00	4.30	10.50	3.75	7.50	3.30	5.5
6.0	12.80	4.65	12.40	4.25	9.00	3.80	9.10	3.60	9.50	3.15	7.50	2.90	6.0
6.5	11.70	3.90	11.30	3.60	8.60	3.20	8.40	3.00	8.60	2.70	7.00	2.50	6.5
7.0	10.70	3.20	10.30	3.00	8.20	2.70	7.80	2.50	7.80	2.25	6.55	2.00	7.0
7.5			9.40	2.50	7.80				7.10	1.85	6.10		7.5
8.0			8.60	1.90	7.40				6.50	1.50	5.70		8.0
8.5			7.70	1.40	7.00				5.85	1.20	5.35		8.5
9.0			7.00		6.60				5.30	0.90	5.00		9.0
10.0			5.70		5.50				4.30		4.10		10.0
11.0			4.75		4.60				3.50		3.35		11.0
12.0			4.00		3.75				2.90		2.65		12.0
13.0			3.35		3.05				2.45		2.00		13.0
14.0					2.50						1.50		14.0
15.0					2.00						1.00		15.0
16.0					1.60								16.0
17.0					1.20								17.0
18.0					0.80								18.0
Critical boom angle	—	—	—	49°	30°	68°	—	—	—	49°	41°	68°	Critical boom angle
Standard hook	for 34 ton						for 34 ton						Standard hook
Hook mass	330kg						330kg						Hook mass
Parts of line	5						5						Parts of line

■ Notes for the lifting capacity chart

■ When the outriggers are used

- The lifting capacity charts are based on the jib stowed on the boom side.
- The lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for boom operation, and auxiliary hook and slings for jib operation. [70 ton hook (mass: 530kg), 48 ton hook (mass: 470kg), 34 ton hook (mass: 330kg), 5 ton hook (mass: 120kg)]
Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
- The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of the working radius.
- The jib working radius is based on the jib mounted on the end of the 44.5m boom. When operating at other boom lengths, use the boom angle alone as the criterion.
- Do not operate the jib when the outriggers are completely retracted.
- The lifting capacities for the over sides vary with the outrigger extension width. Therefore for each outrigger extension condition you should work according the lifting capacity chart. Use the front area lifting capacity chart for the front area lifting capacity, and the lifting capacity chart of outrigger full extension for the rear area lifting capacity.

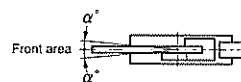


Outrigger extension status	Full extension (7.6m)	Intermediate extension (7.2 — 5.4m)	Intermediate extension (4.3m)	Full retraction
Area α^*	Only front area 40	30	15	3

- The lifting capacity of the rooster sheave is the lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 5,000kg.
[The hook for use with the rooster sheave is the 5 ton hook (mass: 120kg) with one part of line.]
- If the boom length, boom angle jib length, jib angle and/or working radius exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- If you are working with the boom while the jib is rigged, subtract 2.6 ton from the each lifting capacity of the boom for the outrigger extension width 7.6m, 7.2m, 6.5m or 5.4m, and 3.0 ton for the outrigger extension width 4.3m, with an upper limit of 18 ton.
Do not use the rooster sheave in this situation. And do not operate the boom while the jib is rigged, when the outriggers are retracted.
[The main hook for use with the jib rigged is 34 ton hook (mass: 330kg).]
- In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
Therefore, never lower the boom below these angles.
- If you work with 16 parts of line on the hook (with * marked in the lifting capacity chart), use the rooster sheave and sheave bracket.
- The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 45.1kN (4.6tf) per wire rope respectively.
- Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
- Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

■ When the outriggers are not used

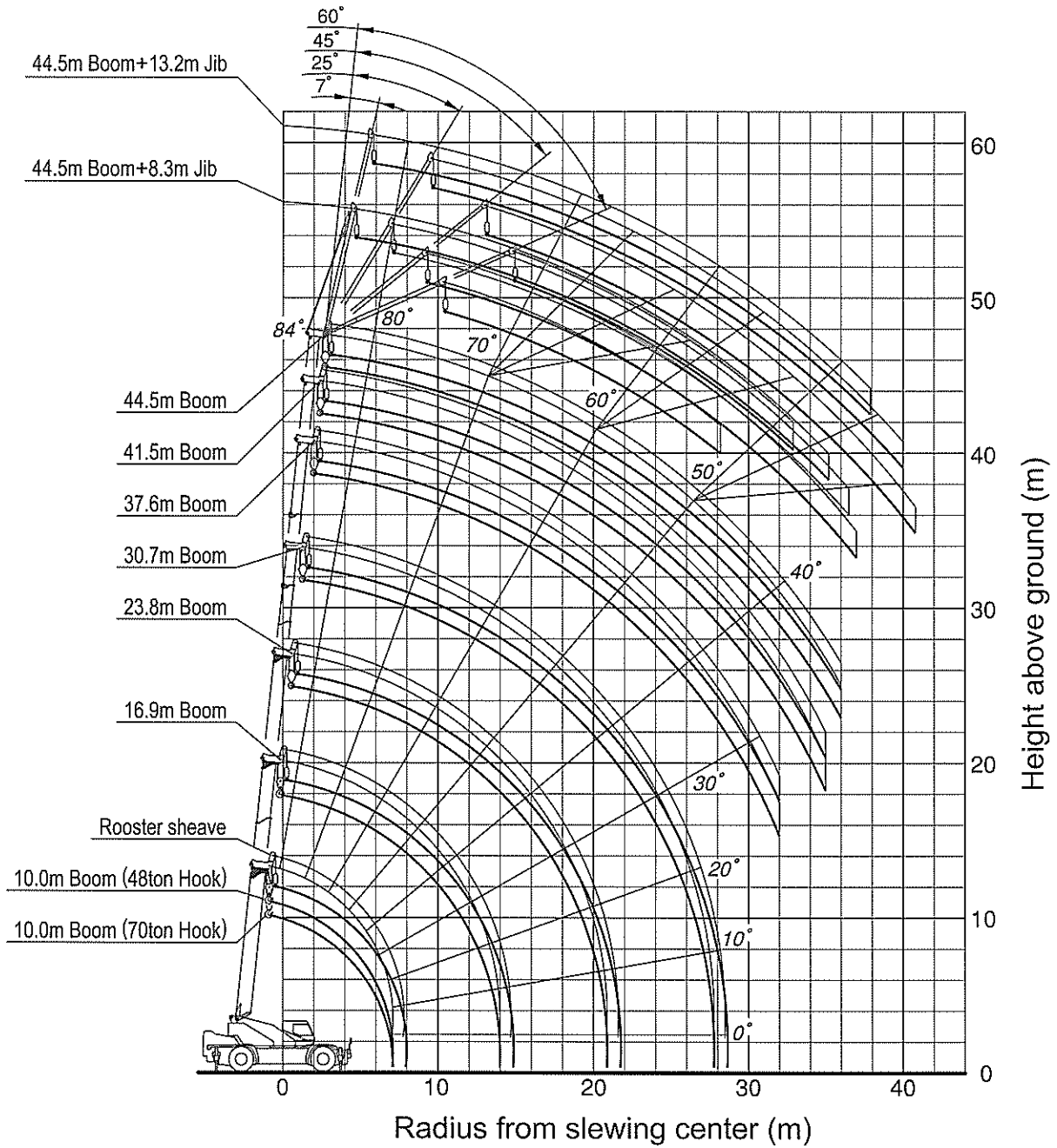
- The lifting capacity charts are based on the jib stowed on the boom side.
- The lifting capacity chart indicates the maximum load the crane can lift when its body is level on firm level ground with all tires inflated to the rated pressure and the suspension cylinder completely retracted. The values in the chart include the mass of the main hook and slings.
Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.
[Tire pressure: 800kPa (8.0kgf/cm²)]
- The working radii are the actual values allowing for boom deflection. Therefore you must always operate the crane on the basis of the working radius.
- The lifting capacity differs between the front area capacity and the full range capacity. When slewing from the front to the side, take care that the crane could not be over loaded.



Crane operation	Stationary crane-on-rubber operation	Pick and carry operation
Area α^*	1	1

- The lifting capacity of the rooster sheave is the lifting capacity of the boom minus the mass of the 34 ton hook (330kg), with an upper limit of 5,000kg.
[The hook for use with the rooster shave is the 5 ton hook (mass: 120kg) with one part of line.]
- Do not work with the jib or with a boom length of more than 23.8m.
- For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
- For pick and carry operation, the super-slow speed switch must be switched to "ON" and the shift lever set to speed 1.
- For pick and carry operation, lower the load to just above the ground and keep your speed strictly below 2km/h to avoid swinging the load.
Take particular care to avoid sharp turns, sudden starts and stops.
- Never operate the crane during pick and carry operation. The slewing brake must be applied.
- If the boom length or working radius exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded.
Therefore, never lower the boom below these angles.
- The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 45.1kN (4.6tf) per wire rope respectively.
- Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
- Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

WORKING RANGE

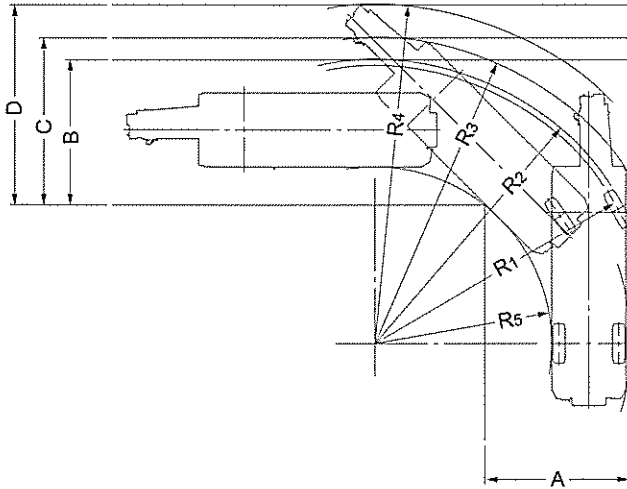


Note:

1. This diagram does not include deflection of Boom and Fly jib.
2. The outriggers are extended (over front).

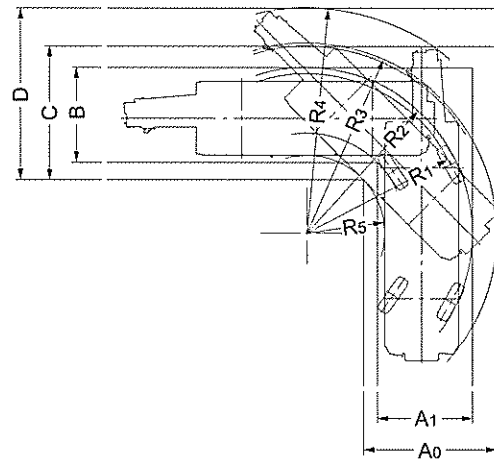
Minimum path width

● Left turn in two-wheel steering mode



- $R_1=11.20\text{m}$
(Minimum turning radius)
- $R_2=11.45\text{m}$
(Turning radius of extremely outer tyre)
- $R_3=12.34\text{m}$
(Chassis turning radius)
- $R_4=13.70\text{m}$
(Boom end turning radius)
- $R_5=7.13\text{m}$
(Turning radius extremely chassis inner)
- $A=5.86\text{m}$ (Width of entrance)
- $B=5.86\text{m}$ (Width of wheel exit)
- $C=6.75\text{m}$ (Width of chassis exit)
- $D=8.11\text{m}$ (Width of exit at end of boom)

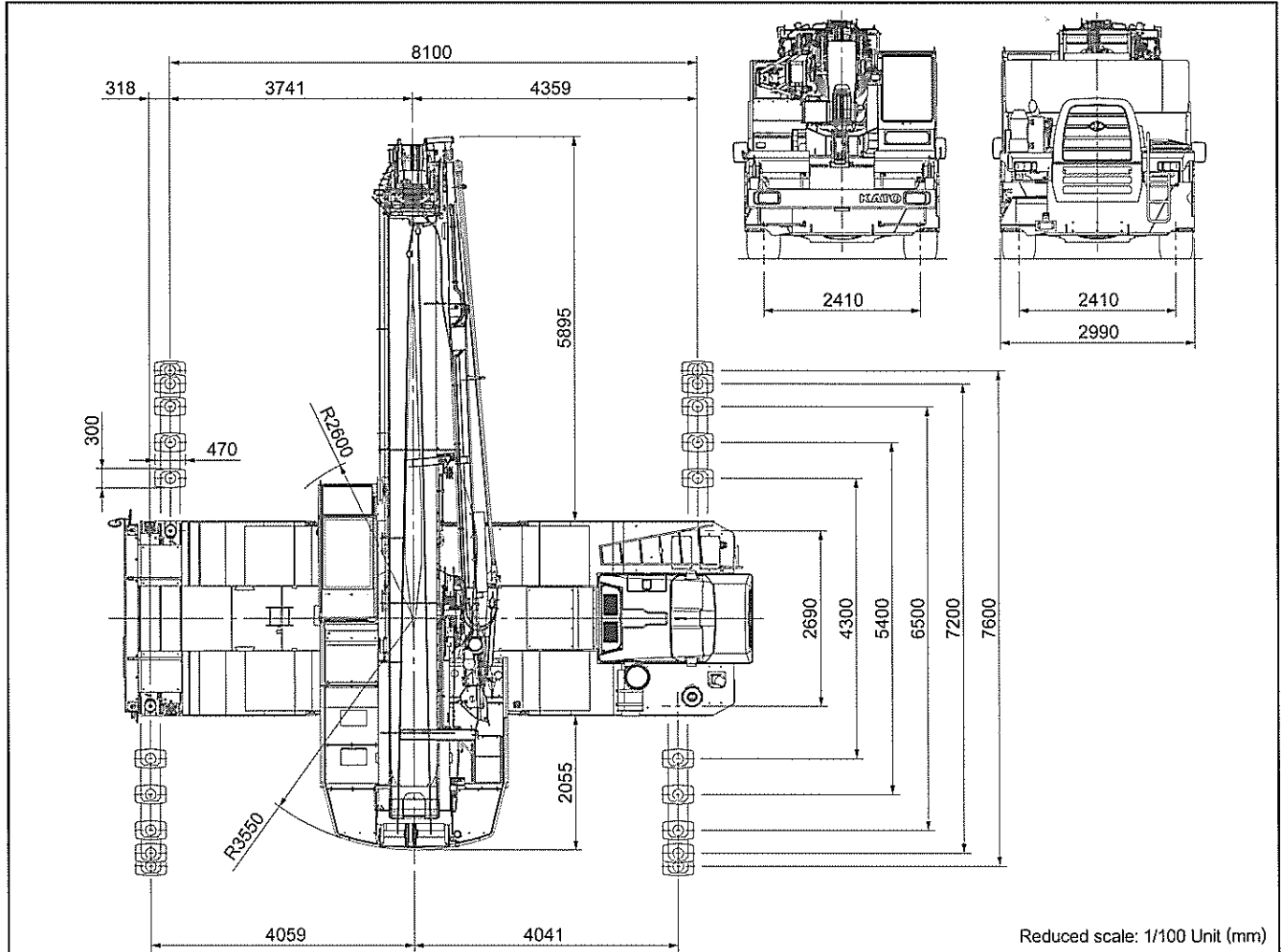
● Left turn in 4-wheel steering mode



- $R_1=6.44\text{m}$
(Minimum turning radius)
- $R_2=6.69\text{m}$
(Turning radius of extremely outer tyre)
- $R_3=7.68\text{m}$
(Chassis turning radius)
- $R_4=9.13\text{m}$
(Boom end turning radius)
- $R_5=3.14\text{m}$
(Turning radius extremely chassis inner)
- $A_0=5.39\text{m}$ (Width of entrance)
- $A_1=3.84\text{m}$ (Width of wheel entrance)
- $B=3.84\text{m}$ (Width of wheel exit)
- $C=5.39\text{m}$ (Width of chassis exit)
- $D=6.90\text{m}$ (Width of exit at end of boom)

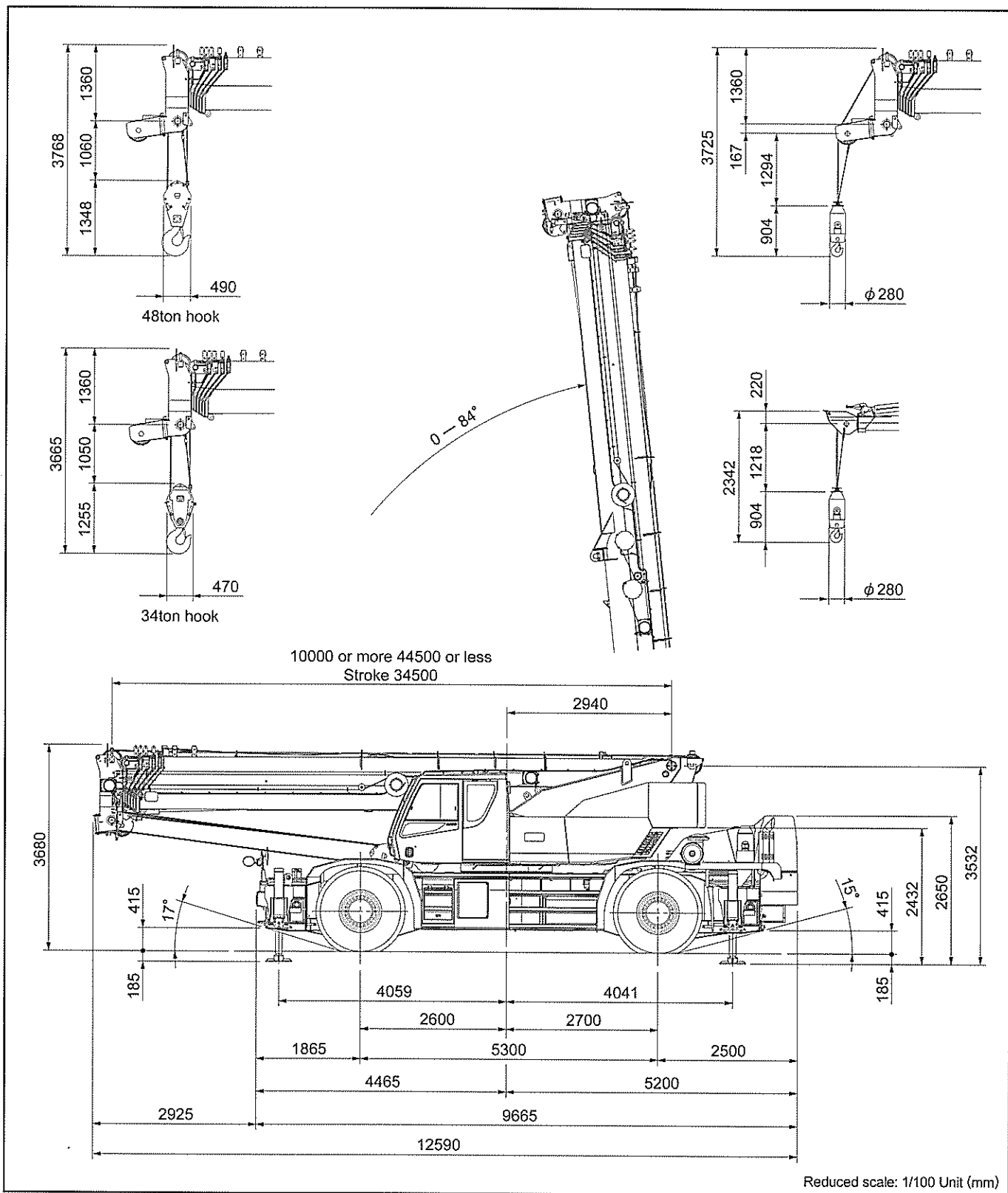
Note: The above values are based on calculations.

Overall view



Reduced scale: 1/100 Unit (mm)

Overall view



* KATO products and specifications are subject to improvements and changes without notice.

Address inquiries to:

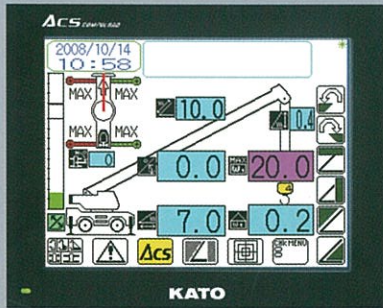
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